## **CENTER FOR DRUG EVALUATION AND RESEARCH**

**APPLICATION NUMBER: NDA 20937** 

# **MICROBIOLOGY REVIEW(S)**

NDAs: 20-937, 20-975, 20-976

### REVIEW FOR HFD-160 OFFICE OF NEW DRUG CHEMISTRY MICROBIOLOGY STAFF HFD-805

Microbiologist's Review #1 of NDAs 20-937, 20-975, 20-976 April 24, 1998

A. 1. APPLICATION NUMBER:

20-937 (glass vials),

20-975 (Pharmacy Bulk Package),

20-976 (plastic syringes).

APPLICANT:

Mallinckrodt Inc.

675 McDonnell Boulevard

PO Box 5840

St. Louis MO 63134

2. PRODUCT NAMES:

Optimark (gadoversetamide injection)

- 3. **DOSAGE FORM AND ROUTE OF ADMINISTRATION:** Optimark Injection contains 330.9 mg/ml of gadoversetamide. It is to be administered intravenously.
- 4. METHOD(S) OF STERILIZATION:

sterilization

- 5. PHARMACOLOGICAL CATEGORY: Optimark Injection is indicated for use with magnetic resonance imaging (MRI) in adults to provide contrast enhancement in lesions in the central nervous system and liver.
- B. 1. DATE OF INITIAL SUBMISSION:

February 28, 1998

2. AMENDMENT:

none

3. RELATED DOCUMENTS:

4. ASSIGNED FOR REVIEW:

March 13, 1998

5. DATE OF CONSULT REQUEST:

March 9, 1998

#### C. REMARKS:

C<sub>P</sub>timark Injection is submitted as three separate NDAs: NDA 20-937, Optimark packaged in glass vials (10 ml vials containing 5 ml or 10 ml of solution, 20 ml vials containing 15 ml or 20 ml of solution); NDA 20-975, Optimark packaged as a

Pharmacy Bulk Package (50 ml); and NDA 20-976, Optimark packaged in plastic syringes (10, 15, 20, and 30 ml fill in a 10, 15, 20 and 30 ml syringe, respectively). The drug product is manufactured at the Mallinckrodt Medical Inc. Raleigh Parenteral facility in Raleigh, North Carolina.

#### D. CONCLUSIONS:

sterilization data of the drug product for the NDA 20-937, 20-975 and The 20-976 are adequate for sterility assurance. The submission is recommended for approval for issues concerning microbiology.

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Review Microbiologist

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NDAs: 20-937, 20-975, 20-976

HFD-160/ Div. File HFD-805/ Uratani HFD-160/CSO/Colangelo

drafted by: Brenda Uratani, 4/24/98 R/D initialed by P. Cooney, 4/24/98